BX-100
BASS AMPLIFIER

OWNER'S MANUAL

MANUAL DEL PROPIETARIO • MODE D'EMPLOI

Congratulations!

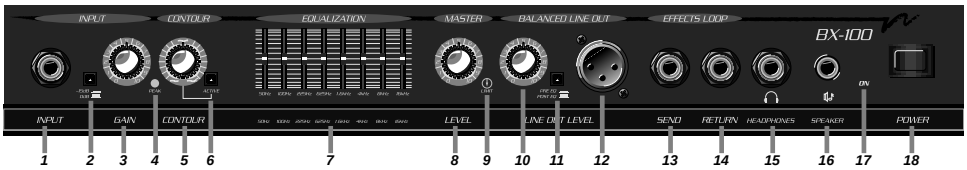
You are now the proud owner of the portable and powerful Crate BX-100 Bass Amplifier. The BX-100 boasts an improved cabinet design with a front port, an extended range bass driver, an extremely clean power amp and very flexible tone circuitry. The balanced line out jack has a level control for the best signal match to a recording console or live PA system, and is selectable for either pre or post EQ. The built-in limiter ensures pure, clean power even at its full 100 watts output. An effects loop, a headphones jack, and an extension speaker jack add to the overall versatility of this incredible bass amp.

Like all Crate products, your BX-100 is Musician Made in the U.S.A., using only the best components. Extensive testing at the hands (and ears) of skilled technicians and musicians insures you that this amplifier is the absolute best it can be.

In order to get the most out of your new bass amp, we urge you to check out the information in this manual before you begin playing.

And ***thank you*** for choosing CRATE®

BX-100 Bass Amplifier



FRONT PANEL – INPUT SECTION

1: Input jack accepts a standard 1/4" phone plug and is suitable for any low to line level signal source.

2: -15dB/0dB Switch pads the input signal 15dB when pressed in, allowing the use of hotter inputs such as tape decks or active basses.

3: Gain sets the amount of gain for the preamp. A low output instrument or soft playing style requires high gain (5-10 setting) while a high output instrument or hard playing style requires less gain (1-4 setting). Too high a setting along with boosted equalization may cause distortion or a harshness of sound. If this is not desired, simply reduce the gain with this control.

4: Peak LED lights when the input signal is nearing clipping. Set the gain control so this LED flashes occasionally when you play.

5: Shape control sets the frequency where the contour effect is centered, giving you a wide variety of tonal variations, from a studio "V"-shaped tone to a more "live", more present sound. This control is only active when the Contour Active switch (#6) is pressed in.

6: Contour Active Switch activates the Contour Shape control when pressed in.

EQUALIZATION SECTION

7: Graphic Equalizer is the main tone control section of the BX-100. Eight bands of frequencies from 50Hz to 16kHz may be boosted by moving the sliders up or cut by moving the sliders down. The lower frequencies are to the left and the higher frequencies are to the right. A great many tone variations are possible using different settings of these sliders.

8: Master Level control sets the overall listening level of the BX-100.

9: Limit Indicator LED: The BX-100 contains a power amp limiter which automatically limits the signal to the power amp to a point just below "clipping" or distortion. This is to assure a clean undistorted sound at full power. The limit LED indicator will be lit whenever full power is reached.

10: Balanced Line Out Level control adjusts the strength of the signal at the Balanced Line Output jack (#12).

11: Pre/Post EQ Switch determines whether the line out signal is taken before (switch in) or after (switch out) the BX-100's Gain, Shape, and Equalizer controls.

12: Balanced Line Out jack provides a balanced output signal for connection to an external power amp, tape deck or mixing board.

EFFECTS LOOP

13: Send jack may be connected to the line level input of an external effects device. This jack may also be used as a "direct" unbalanced send for recording, etc.

14: Return jack may be connected to the line level output of an external effects device. The "Post Gain" configuration is helpful in obtaining optimum input signal levels to external devices and reducing the noise levels associated with them.

15: Headphones jack will accept a standard headphone plug for private practicing. The speaker is automatically disconnected when headphones are plugged in here.

16: Extension Speaker jack allows connection to an external speaker cabinet. A speaker plugged into this jack will be in series with the internal speaker.

> **WARNING:** DO NOT attempt to use headphones in the Speaker jack! Permanent hearing damage could result!

17: On Indicator LED will be lit when the amplifier is turned on.

18: Power Switch turns the AC power on or off.

REAR PANEL

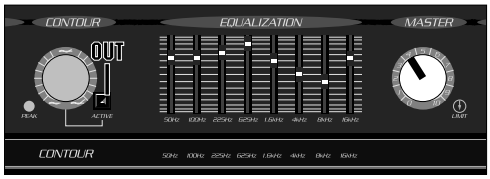
19: Power Cord: Your BX-100 is equipped with a heavy-duty grounded three-wire power cord. Be sure this cord is properly plugged into a safely wired grounded 120 VAC 60 Hz AC power outlet before use. (If your BX-100 was purchased outside the United States, refer to the rear panel for power ratings). For your safety, never attempt to defeat the ground connection on this cord.

20: Fuse Holder: The BX-100 is protected from damages caused from a faulty AC power source or other problems. If the fuse blows, replace it ONLY with the same size and type as indicated. If the fuse blows repeatedly, check the AC source: if it's okay, contact your Crate dealer for service information.

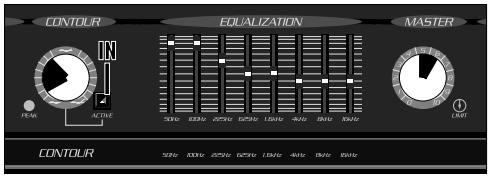
BX-100 Bass Amplifier

SUGGESTED STARTING SETTINGS:

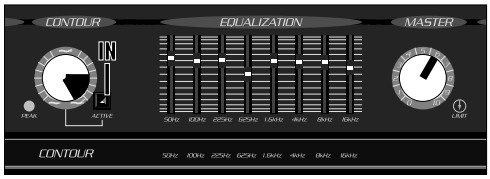
ROCK:



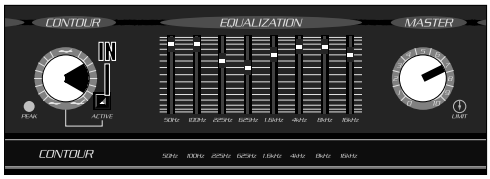
JAZZ:



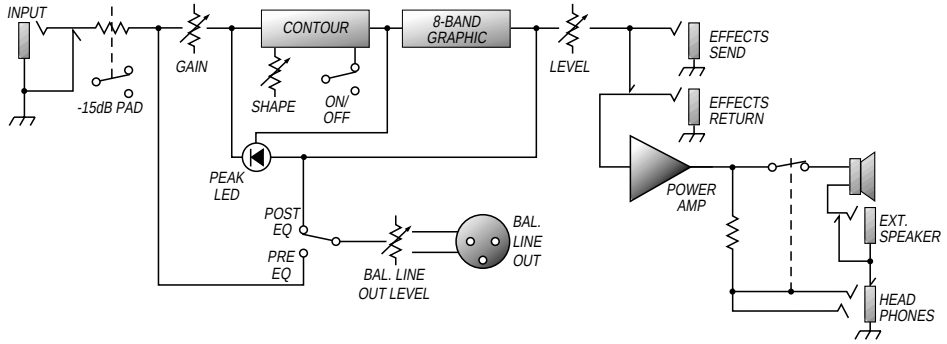
COUNTRY:



FUNK:



SYSTEM BLOCK DIAGRAM:



The BX-100 is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

El BX-100 esta cubierto con un material durable Tolex: limpielo con una toalla seca. Nunca rocie el gabinete con sustancias limpiadoras. Evite usar materiales abrasivos con los cuales pueda danar el acabado.

Le BX-100 est couvert avec «Tolex» un recêtement noir et durable. Essuyez cette matière avec une toile propre et sans charpie. Ne pulvérisez jamais les agents de nettoyage sur l'appareil. Evitez les nettoyeurs abrasifs qui peuvent endommager le «Tolex.»

BX-100 Bass Amplifier

BX-100 TECHNICAL SPECIFICATIONS:

Output Power Rating	100 watts RMS @ 1% THD 4 ohms, 120 VAC
Speaker Size and Rating	Custom Design 15” with 2” voice coil Power Handling: 150 watts RMS
Graphic Equalizer	24dB range @ 50Hz, 100Hz, 225Hz, 625Hz, 1.6kHz 4kHz, 8kHz and 16kHz
Input Impedance	200k ohms
Maximum Input Signal Level Accepted	15 volts, peak-to-peak
Gain @ 1kHz	65dB w/EQ flat, contour off
Line Output Jack	2 volts peak-to-peak @ full rated power
Balanced Line Out Jack	2 volts peak-to-peak @ full rated power w/600Ω load
Signal to Noise Ratio	65dB below full power, tones flat, contour off, gain and level @ “10”
Input Power Requirements	120 VAC, 60Hz, 115VA 100/110VAC, 50/60Hz, 115VA 230VAC, 50/60Hz, 115VA
Size and Weight	25” H x 20.75” W x 15.75” D, 67 lbs.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

PRECAUCION
RIESGO DE CORRIENTAZO
NO ABRA

PRECAUCION PARA DISMINUOIR EL RIESGO DE CORRIENTAZO
NO ABRA LA CUBIERTA
NO HAY PIEZAS ADENTRO QUE EL USARIO PUEDO REPARAR
DEJE TODO MANTENIMIENTO A LOS TECHNICOS CALIFICADOS

ATTENTION
RISQUE D'ELECTROCUTION
NE PAS OUVRIR

ATTENTION: POUR REDUIRE D'ELECTROCUTION NE PAS
ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPRABLE
PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN QUALIFIE.

VORSICHT
ELEKTRISCHE SCHLAGGEFAHR
NICHT OFFENEN

VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGGEFAHR NICHT
DEN DECKEL ABENHMEN. INTERNE TEILE KONNEN NICHT VOM
BENUTZER GEWARTET WERDEN. DIE WARTUNG IS QUALIFIZIERTEM
WARTUNGSPERSONAL ZU UBERLASSEN.

THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES:

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS; DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD; CONNECT ONLY TO A PROPERLY GROUNDED AC POWER OUTLET.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.

ESTE APARATO HA SIDO DISENADO Y CONSTRUIDO PARA PROVEER ANOS DE OPERACION SEGURA Y CONFIABLE. PARA PROLONGAR LA VIDA DE ESTA UNIDAD E IMPEDIR DANOS ACCIDENTALES POR FAVOR SIGA ESTAS INSTRUCCIONES PREVENTIVAS:

PRECAUCION: PARA DISMINUIR EL RIESGO DE DESCARGAS ELECTRICAS: (1) NO ABRA LA CUBIERTA, (2) NO ES RECOMENDABLE REMOVER O DESACTIVAR LA PATA DEL POLO A TIERRA DEL CABLE DE CORRIENTE, CONECTE CORRECTAMENTE A UNA TOMA DE CORRIENTE A TIERRA.

ADVERTENCIA: PARA EVITAR DESCARGAS EL ECTRICAS O PELIGRO DE INCENDIO, NO DEJE ESTE APARATO EXPUESTO A LA LLUVIA O HUMEDAD.

PRECAUCION: NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDE REPARAR. DEJE TODO MANTENIMIENTO A LOS TÉCNICOS CALIFICADOS.

PRECAUCION: NUESTROS AMPLIFICADORES PUEDEN PRODUCIR NIVELES DE PRESION DE SONIDO ALTO. EXPOSICION CONTINUADA A LOS NIVELES DE PRESION DE SONIDO ALTO PUEDE CAUSA DANO PERMANENTE A SU OIDO. ES ACONSEJADO QUE USE PRECAUCION AL USUARIO Y ES RECOMENDADO PROTECCION PARA LOS OIDOS SI LA UNIDAD ES OPERADA A VOLUMEN ALTO.

CET ÉQUIPEMENT AVAIT ÉTÉ INVENTÉ ET ARRANGÉ POUR POURVOIR DES ANNÉES D'USAGE SAUF ET SÛR. POUR PROLONGER LA VIE DE CET APPAREIL ET POUR EMPÊCHER LES DOMMAGES ET LES TORTS ACCIDENTELS, SUIVEZ LES INSTRUCTIONS DE PRÉCAUTION.

AVERTISSEMENT: POUR RÉDUIRE LES RISQUES D'ÉLECTROCUTION: (1) N'OUVREZ PAS LE CHÂSSIS, (2) NE PAS ESSAYER DE SUPPRIMER LA BROCHE CORRESPONDANT À LA TERRE.

ATTENTION: POUR RÉDUIRE LES RISQUES D'UN FEU OU D'ÉLECTROCUTION, N'EXPOSEZ PAS L'APPAREIL À LA PLUIE OU À LA MOITEUR.

ATTENTION: IL N'Y A PAS D'ÉLÉMENTS RÉPARABLES DANS L'APPAREIL. CONSULTER UN TECHNICIEN QUALIFIÉ POUR LES RÉPARATIONS.

ATTENTION: NOS AMPLIFICATEURS SONT CAPABLES DE LA PRODUCTION DES NIVEAUX DE SON D'UNE HAUTE PRESSION. L'EXPOSITION CONTINUE AUX CES NIVEAUX PEUT CAUSER LA SURDITÉ PERMANENTE. LA PRUDENCE EST ADVISÉ À UTILISATEUR ET LA PROTECTION DES OREILLES EST RECOMMANDÉ SI L'APPAREIL EST UTILISÉ À UN HAUT NIVEAU DE VOLUME.

EXPLANATION OF GRAPHICAL SYMBOLS:
EXPLICACION DE SIMBOLOS GRAFICOS:
EXPLICATION DES SYMBÔLES GRAPHIQUES:

= “DANGEROUS VOLTAGE” “VOLTAJE PELIGROSO” “DANGER HAUTE TENSION” “GEFAHLICHE SPANNUNG”

= “IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL” “ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES.” “REFERREZ-VOUS AU MANUAL D'UTILISATION” “UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN”

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this Crate manual are subject to change without notice.

Crate continuamente desarrolla nuevos productos, así como también mejora los existentes. Por esta razón, las especifaciones é información incluidos en este manual están sujetos a cambios sin previo aviso

Crate développe continuellement des nouvels produits, ainsi d'améliorer ceux qui existe. Pour cette raison les spécifications et les informations dans ce manuel peuvent se changer sans préavis.

Recyclable

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